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KOREAN PATENT PUBLICATION NO. 1999-0044353

ACCOUSTIC APPARATUS

An acoustic apparatus includes a member extending lengthwise to
5 maintain a bending wave on an intentional and essential operation area,
which depends on the member's specific variables including a geometric
configuration and a directional bending rigidity. The member has a
distribution of a resonant mode of a natural bending wave resonance on the
operation area. These variables are selected as values matching an
10 achievable acoustic operation required for the operation of the acoustic
apparatus within a frequency arrange that the distribution requires.

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FIG. 1A

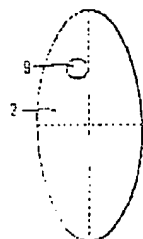


FIG. 1B

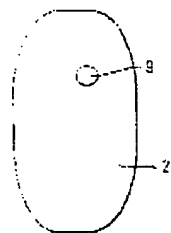


FIG. 1C

FIG. 2A

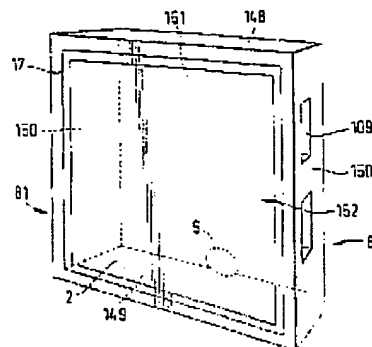


FIG. 2B

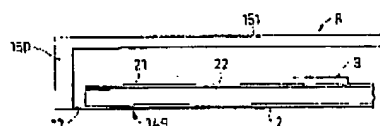


FIG. 3A

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FIG. 4A

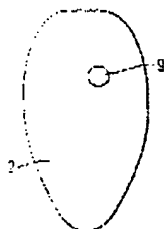


FIG. 4B

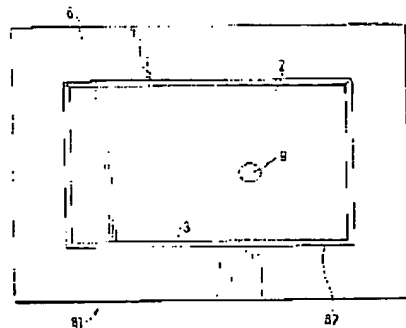


FIG. 5A

FIG. 5B

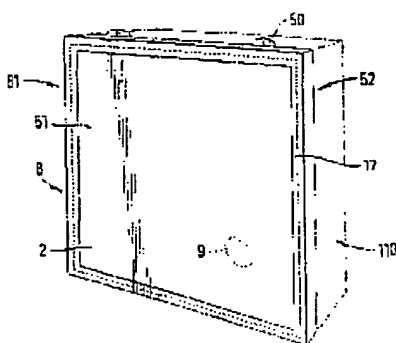


FIG. 5C

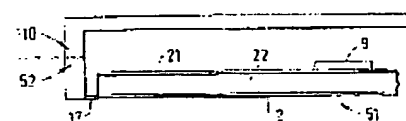


FIG. 6A

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FIG. 1

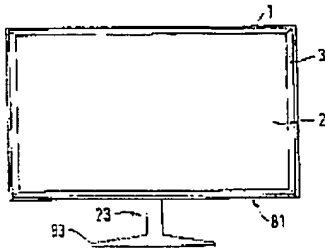


FIG. 2

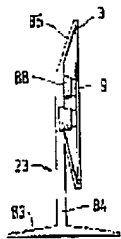


FIG. 3

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FIG. 4

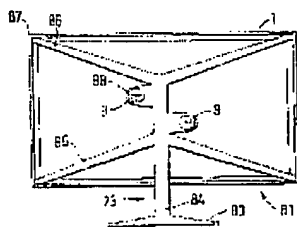


FIG. 5

FIG. 6

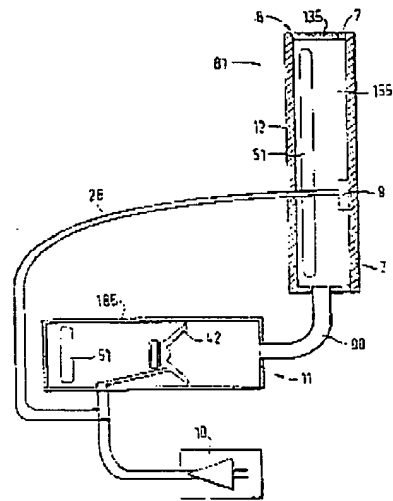


FIG. 7

FIG. 8

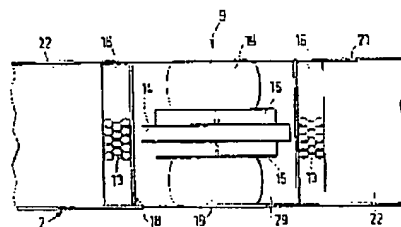


FIG. 9

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FIG. 1

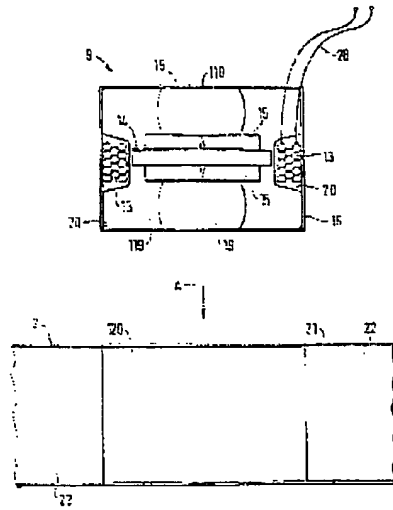


FIG. 2

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FIG. 3

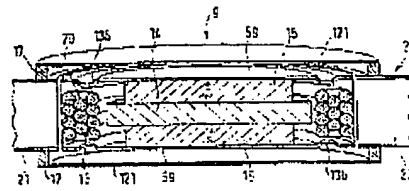


FIG. 4

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FIG. 5

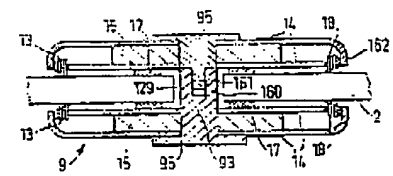


FIG. 6

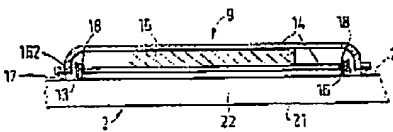


FIG. 7

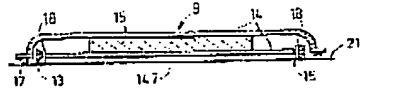


FIG. 8

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FIG. 9

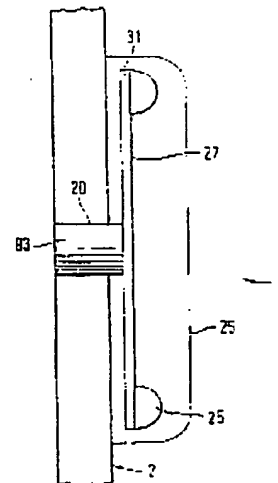
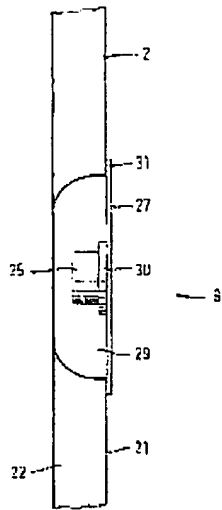


FIG. 10

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FIG. 1



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FIG. 2

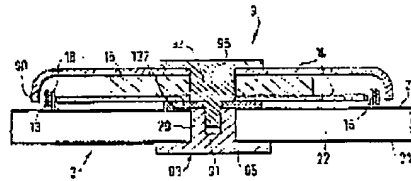
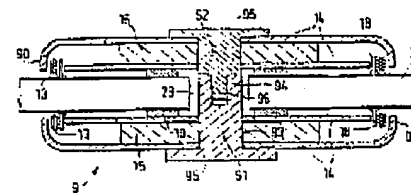


FIG. 3

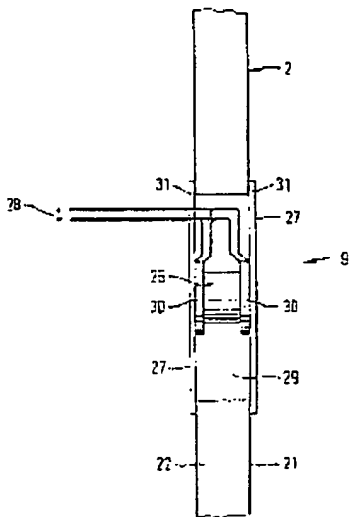


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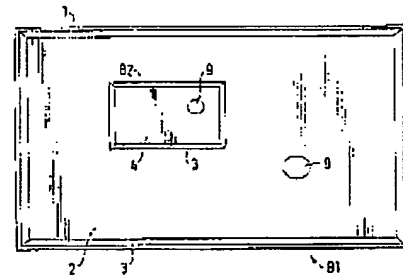
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FIG. 4



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FIG. 5



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FIG. 2

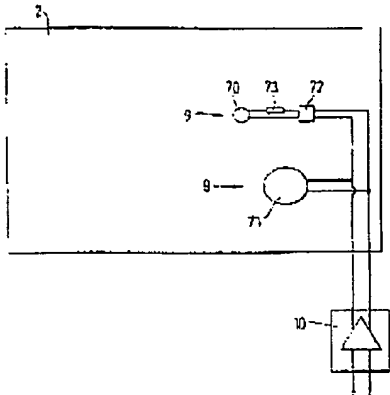


FIG. 2

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FIG. 3

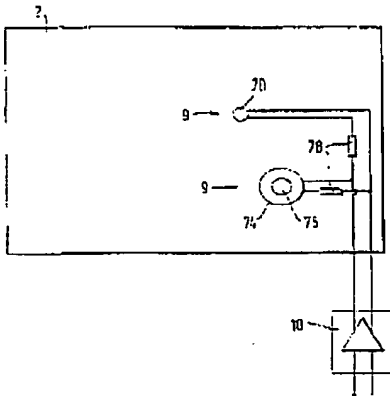


FIG. 3

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FIG. 4

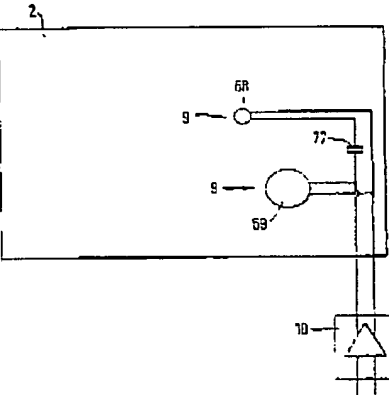


FIG. 4

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FIG. 5

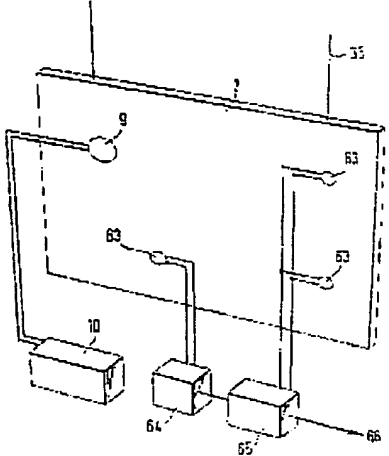
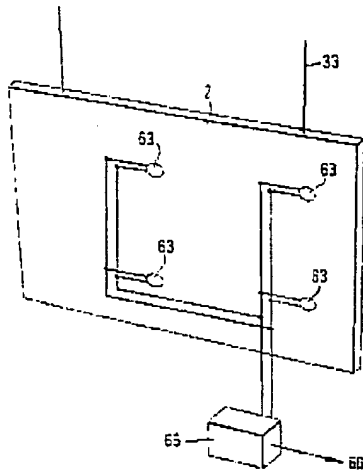


FIG. 5

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FIG. 1



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FIG. 2

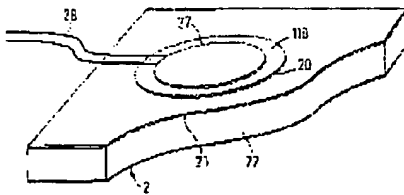
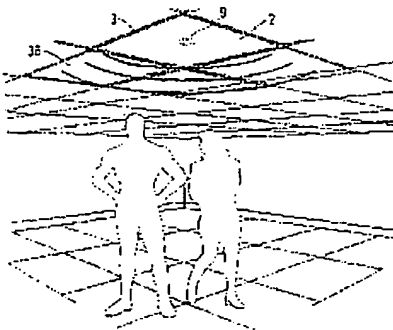


FIG. 3



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FIG. 4



FIG. 5

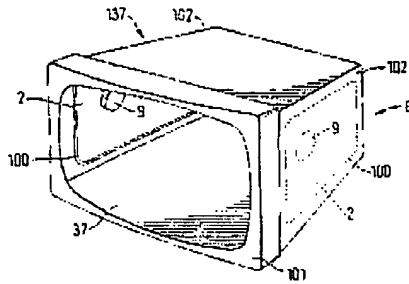
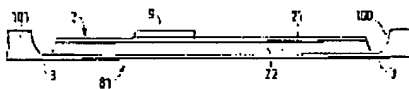


FIG. 6



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FIG. 7

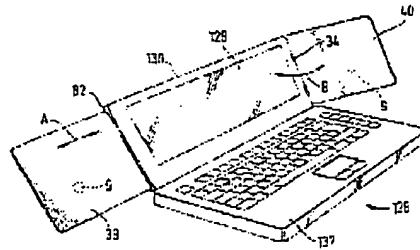


FIG. 8

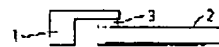
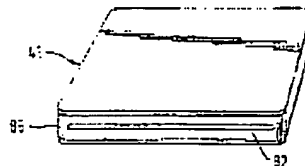
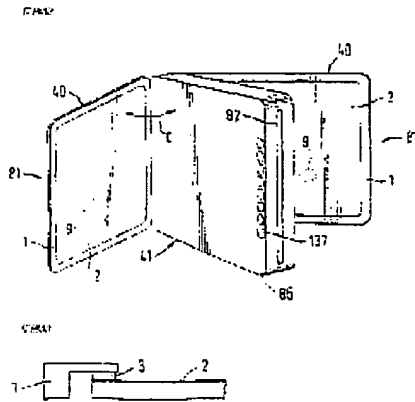


FIG. 9

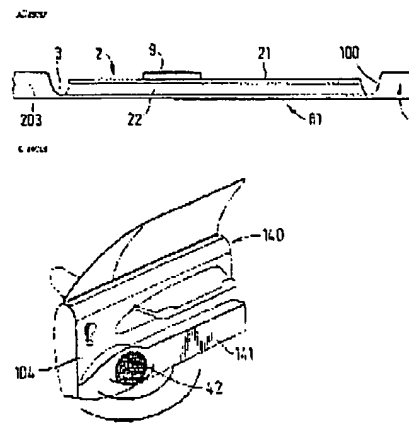


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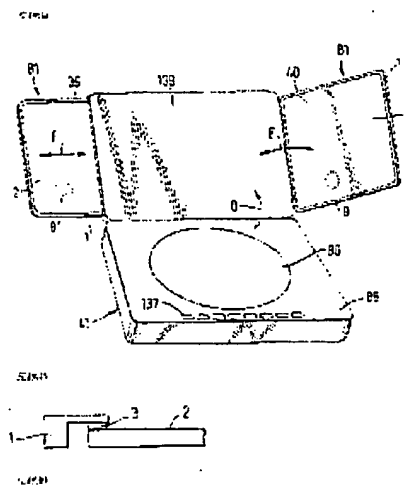
DS-65



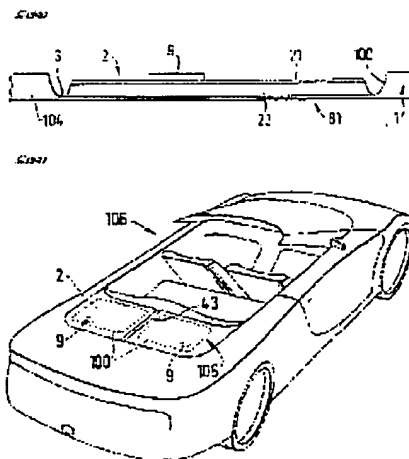
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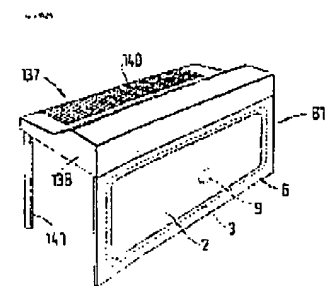
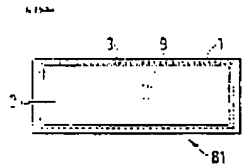
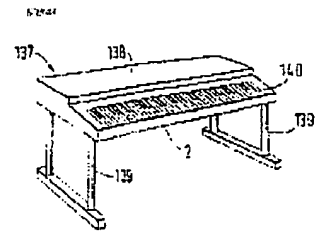
85-66



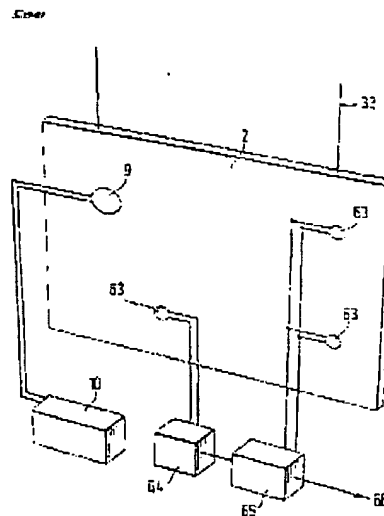
15-68

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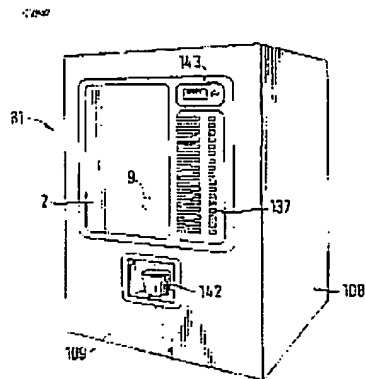
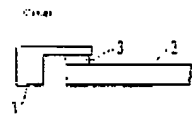
05-08



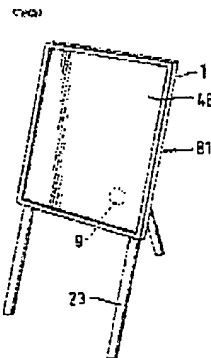
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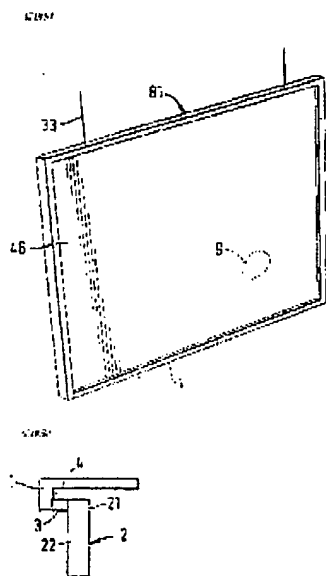


05-10



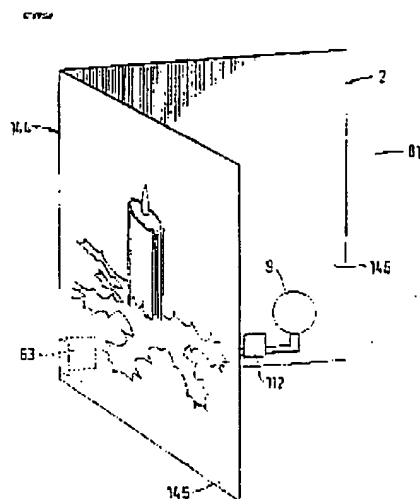
05-12

FIG. 1993-0044353



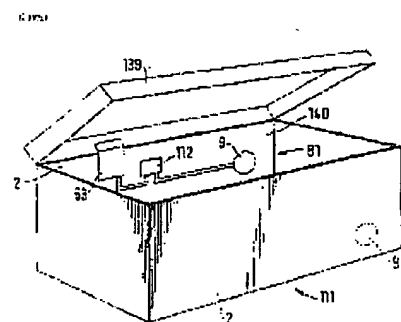
85-73

FIG. 1993-0044353



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FIG. 1993-0044353



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FIG. 1993-0044353

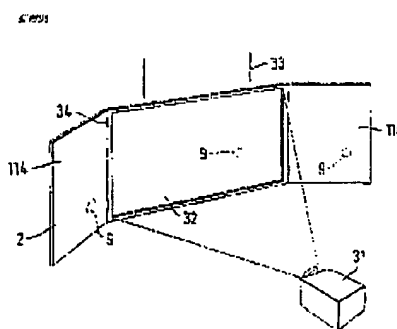


FIG. 1993-0044353

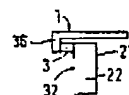
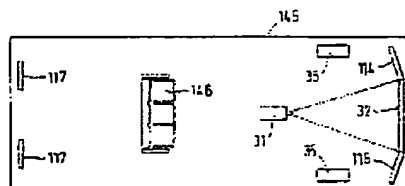


FIG. 1993-0044353



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FIG. 1A

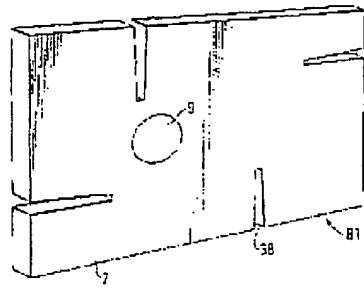


FIG. 1B

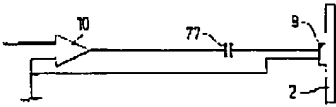
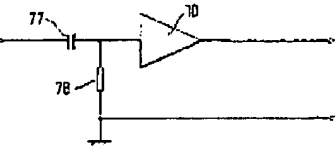


FIG. 1C



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FIG. 1D

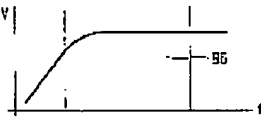


FIG. 1E

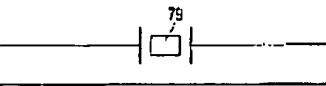


FIG. 1F

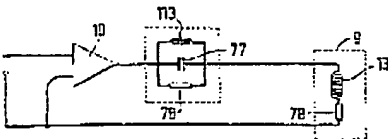
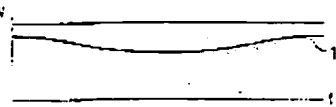


FIG. 1G



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FIG. 1H

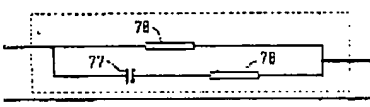


FIG. 1I

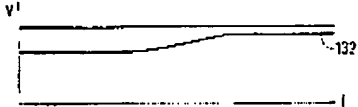


FIG. 1J



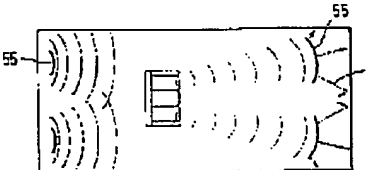
FIG. 1K



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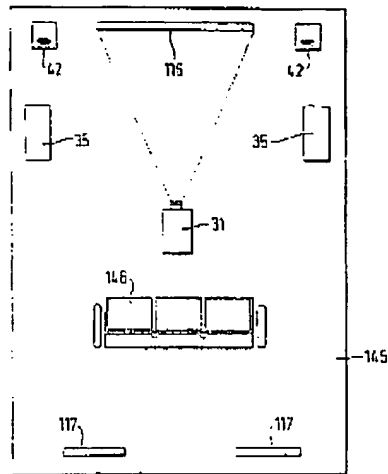
FIG. 1L



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Fig. 1



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Fig. 2

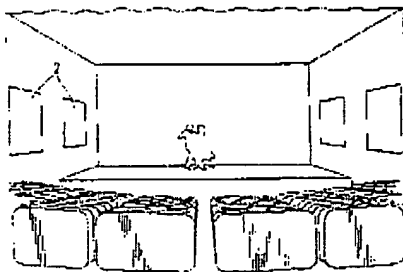
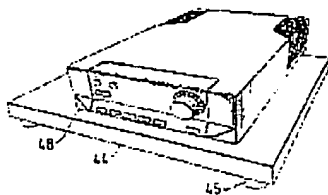


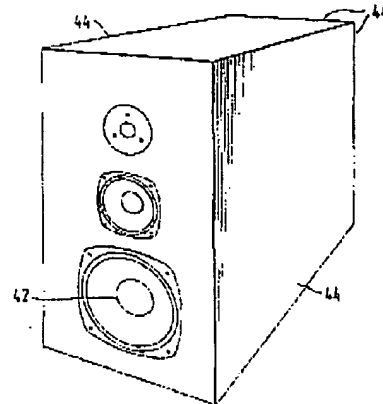
Fig. 3



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Fig. 4



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Fig. 5

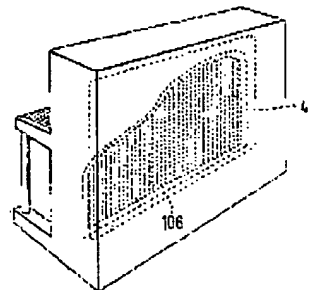
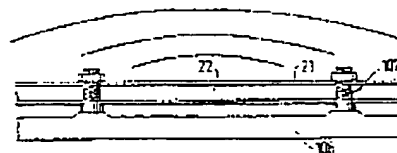


Fig. 6



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Fig. 1

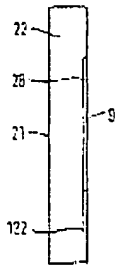
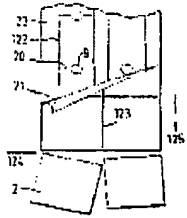


Fig. 2



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